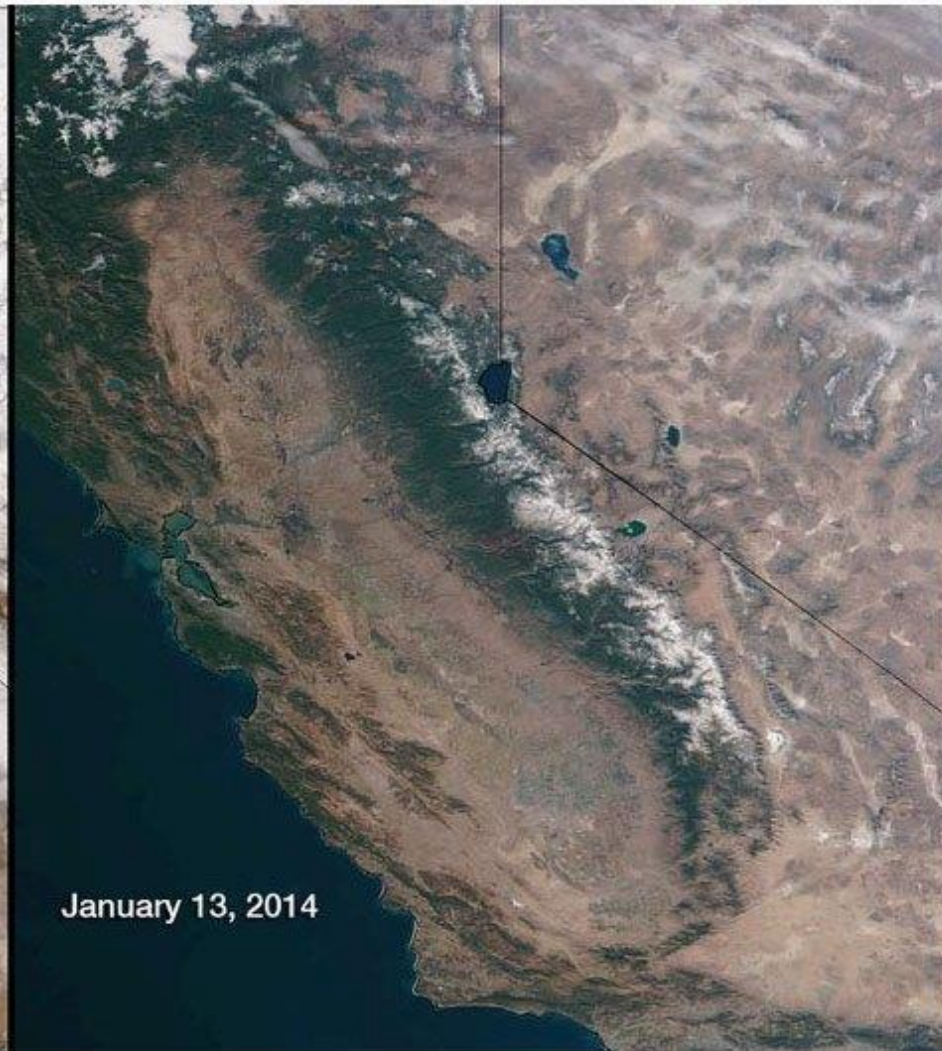


State of the Water

Mayor Ron Morrison
City Council Meeting
February 18, 2014






January 13, 2013



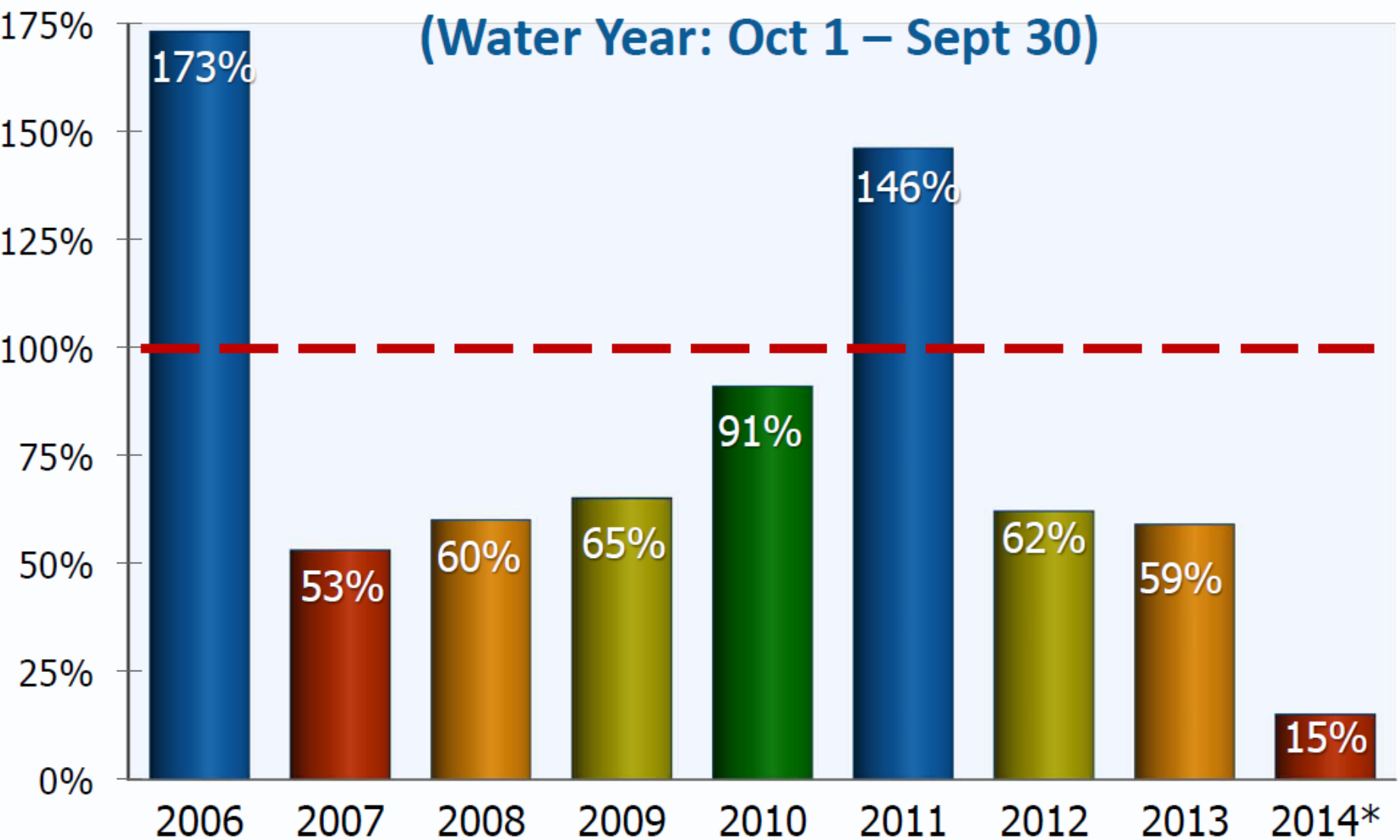
January 13, 2014

This image provided by NOAA compares January 13, 2013 and January 13, 2014 snow cover in Northern California and Nevada as seen by the Suomi NPP satellite. California, which is seeing its driest conditions in 500 years, is experiencing extreme drought in more than 62 percent of the state. (AP Photo/NOAA) — *The Associated Press*

Share Photo   

Average Water Year Statewide Runoff

(Water Year: Oct 1 – Sept 30)



Lake Oroville – Principal SWP Reservoir - July 2011

100% Capacity, 131% Average



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DWR\Folsom &
Oroville_FULL#DC8A\Oroville_FULL_2011#8C13\oroville-0249
.jpg

Lake Oroville – Principal SWP Reservoir - January 2014

36% Capacity, 55% Average



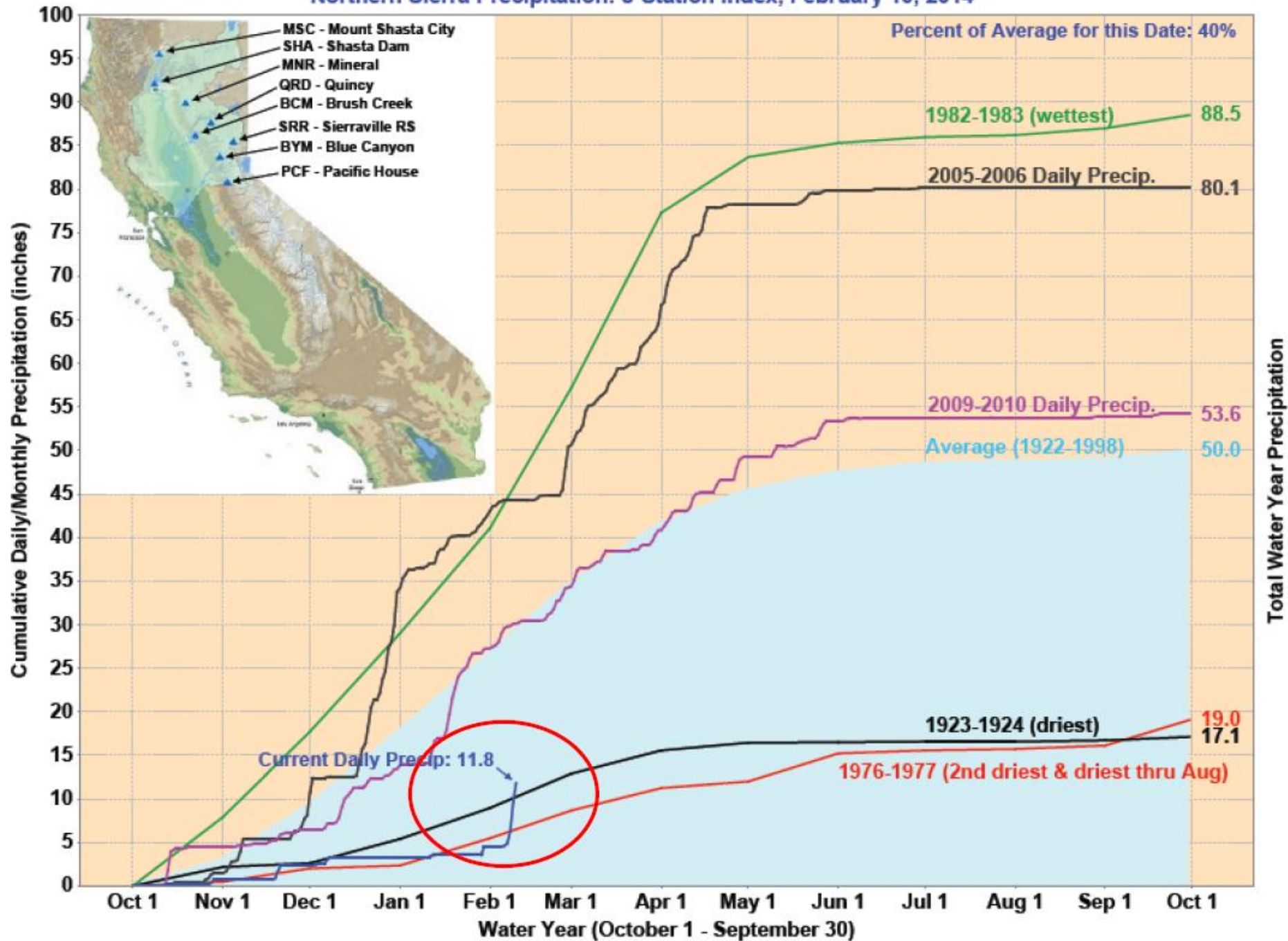
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Oroville_Low
Water_PJH_01_16_2014\Lake_Oroville_PJH_01_16_14-087.jpg

Drought Related Actions

- Governor Brown proclaimed a State of Emergency in California due to drought (Jan 17)
 - Call for increased voluntary conservation and implementation of shortage contingency plans
- DWR reduced SWP Table A Allocation to zero percent (Jan 31)
 - Jan 30 snow survey lowest recorded snow water content for that time of year (12%)
- MWD Board adopted Water Supply Alert resolution (Feb 11)
 - Call for local agencies to achieve extraordinary conservation by adopting and enforcing drought ordinances



Northern Sierra Precipitation: 8-Station Index, February 10, 2014



Comparison of Water Use and Supply Conditions in Water Authority Service Area in 2007 and 2013

| Indicator | CY 2007 | CY 2013 |
|---|------------|------------|
| Total Water Use (includes recycled water) | 725,900 AF | 572,200 AF |
| Member Agency Local Supplies | 77,000 AF | 87,900 AF |
| Water Authority Colorado River Transfer Supplies | 73,125 AF | 180,000 AF |
| Regional Reliance on MWD Supplies | 79% | 53% |
| MWD End of Year Storage | 1.8 MAF | 2.4 MAF |

Notes: MWD = Metropolitan Water District of Southern California
AF = Acre-Feet



Water Authority Dry-Year Regional Management Tools

- Water Shortage and Drought Response Plan
 - Provides guidance on regional actions to manage dry-year conditions
 - Provides orderly, incremental approach to drought response
- Model Drought Response Ordinance
 - Purpose is to provide regional consistency
 - Contains response levels and core water-use restrictions
 - Progressive severity of restrictions to avoid economic hardship
 - All member agencies updated ordinances based on model
 - Restrictions vary slightly

Water Shortage and Drought Response Plan

Drought Response Matrix – Firm Demands

| POTENTIAL SDCWA DROUGHT ACTIONS | REGIONAL STAGES | | |
|--|-----------------------------|--------------------------|--------------------|
| | Voluntary Supply Management | SDCWA Supply Enhancement | Mandatory Cutbacks |
| Ongoing BMP Implementation | X | X | X |
| Communication Strategy | X | X | X |
| Monitoring supply conditions and storage levels | X | X | X |
| Call for increased voluntary conservation | X | X | X |
| Put in and take from SDCWA Carryover Storage | X | X | X |
| Secure transfer option contracts | X | X | X |
| Buy phase 1 spot transfers (cost at or below Tier 2 rate) | | X | X |
| Call transfer options | | X | X |
| Buy phase 2 spot transfers (cost at or below Tier 2 rate) | | X | X |
| Implement allocation methodology | | | X |
| Utilize ESP Supplies | | | X |

Model Drought Response Ordinance

- Contains four drought response levels with progressive severity of restrictions
- Types of water conserving measures at Level 1:
 - Washing paved surfaces only when necessary for health and safety
 - Eliminating inefficient landscape irrigation, such as runoff and overspray
 - Irrigating only before 10 a.m. and after 6 p.m.
 - Serving and refilling water at restaurants only on request

Drought Watch

(Increased voluntary conservation)

Drought Alert

(Up to 20% mandatory conservation)

Drought Critical

(Up to 40% mandatory conservation)

Drought Emergency

(More than 40% mandatory conservation)



Correlation between Plan Stages and Model Ordinance Levels

| Plan Stage | Potential Drought Response Level | Use Restrictions |
|------------|----------------------------------|------------------|
| *Stage 1 | 1- Drought Watch | Voluntary |
| Stage 2 | 1- Drought Watch | Voluntary |
| | 2- Drought Alert | Mandatory |
| Stage 3 | 2- Drought Alert | Mandatory |
| | 3- Drought Critical | Mandatory |
| | 2- Drought Emergency | Mandatory |

*Staff recommendation, Stage 1, Level 1

